

UNITED STATES DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
WATER RESOURCES DIVISION  
GROUND WATER BRANCH

RECORDS OF WELLS AND WATER-LEVEL FLUCTUATIONS  
IN THE ABERDEEN-SPRINGFIELD AREA, BINGHAM AND  
POWER COUNTIES, IDAHO, IN 1961

By

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Prepared in cooperation with the Idaho Department of  
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## CONTENTS

	Page
Introduction . . . . .	1
Well-numbering system . . . . .	4
Records of observation wells . . . . .	5
Water levels in observation wells, 1961 . . . . .	10

## ILLUSTRATIONS

Plate 1. Map showing locations of wells in the Aberdeen-Springfield area . . . . .	Pocket
Figure 1. Index map of Idaho, showing area covered by this report . . . . .	3

## TABLES

Table 1. Records of observation wells in western Bingham and Power Counties, Idaho . . . . .	6
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RECORDS OF WELLS AND WATER-LEVEL FLUCTUATIONS IN THE ABERDEEN-  
SPRINGFIELD AREA, BINGHAM AND POWER COUNTIES, IDAHO, IN 1961

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INTRODUCTION

This is the tenth annual report<sup>1/</sup> in a series of factual reports of records of wells and water-level fluctuations in the Aberdeen-Springfield area in Bingham and Power counties for the calendar year 1961.

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1/ Shuter, Eugene, 1953, Records of wells and water-level fluctuations in western Bingham County, Idaho: U.S. Geol. Survey mimeo. report, 97 p., 1 fig., 1 pl.

Sisco, Harold G., 1954, Records of wells, water-level fluctuations, and ground-water withdrawals in the Aberdeen-Springfield area, Bingham and Power counties, Idaho: U.S. Geol. Survey mimeo. report, 50 p., 1 fig., 1 pl.

Sisco, Harold G., 1955, Records of wells and water-level fluctuations, in the Aberdeen-Springfield area, Bingham and Power counties, Idaho, in 1954. U.S. Geol. Survey mimeo. report, 30 p., 3 fig., 1 pl.

Sisco, Harold G., 1956, Water levels in observation wells in the Aberdeen-Springfield area, Bingham and Power counties, Idaho, in 1955. U.S. Geol. Survey mimeo. report, 32 p., 3 fig., 1 pl.

Sisco, Harold G., 1958, Records of wells and water-level fluctuations, in the Aberdeen-Springfield area, Bingham and Power counties, Idaho, in 1956. U.S. Geol. Survey mimeo. report, 39 p., 3 fig., 1 pl.

Sisco, Harold G., 1958, Records of wells and water-level fluctuations, in the Aberdeen-Springfield area, Bingham and Power counties, Idaho, in 1957. U.S. Geol. Survey mimeo. report, 51 p., 3 fig., 1 pl.

Sisco, Harold G., 1959, Records of wells and water-level fluctuations, in the Aberdeen-Springfield area, Bingham and Power counties, Idaho in 1958. U.S. Geol. Survey mimeo. report, 51 p., 3 fig., 1 pl.

Sisco, Harold G., 1960, Records of wells and water-level fluctuations, in the Aberdeen-Springfield area, Bingham and Power counties, Idaho in 1959. U.S. Geol. Survey mimeo. report, 37 p., 3 fig., 1 pl.

Sisco, H. G., Luscombe, R. W., 1961, Records of wells and water-level fluctuations, in the Aberdeen-Springfield area, Bingham and Power counties, Idaho in 1960, U.S. Geol. Survey mimeo. report, 35 p., 13 fig., 1 table, 1 pl.

The observation well network extends around the American Falls reservoir from the village of Thomas on the north to the Portneuf River on the east (fig. 1).

Depth-to-water measurements were made in 28 wells at approximately monthly intervals and automatic recording gages were maintained on 5 wells. Two of the recording gages are located in Bingham County northeast of Aberdeen, and three are located in Power County northeast of American Falls.

Water-level measurements in wells 3S-33E-22cdl, 4S-32E-28cc2, 4S-33E-1bcl, and 5S-31E-33bd1 were discontinued and well 4S-32E-28bcl was added to the network. Measurements made in well 4S-32E-28bcl in 1927 and 1928 were made by T. R. Newell for Water District 36. The complete record is shown in this report.

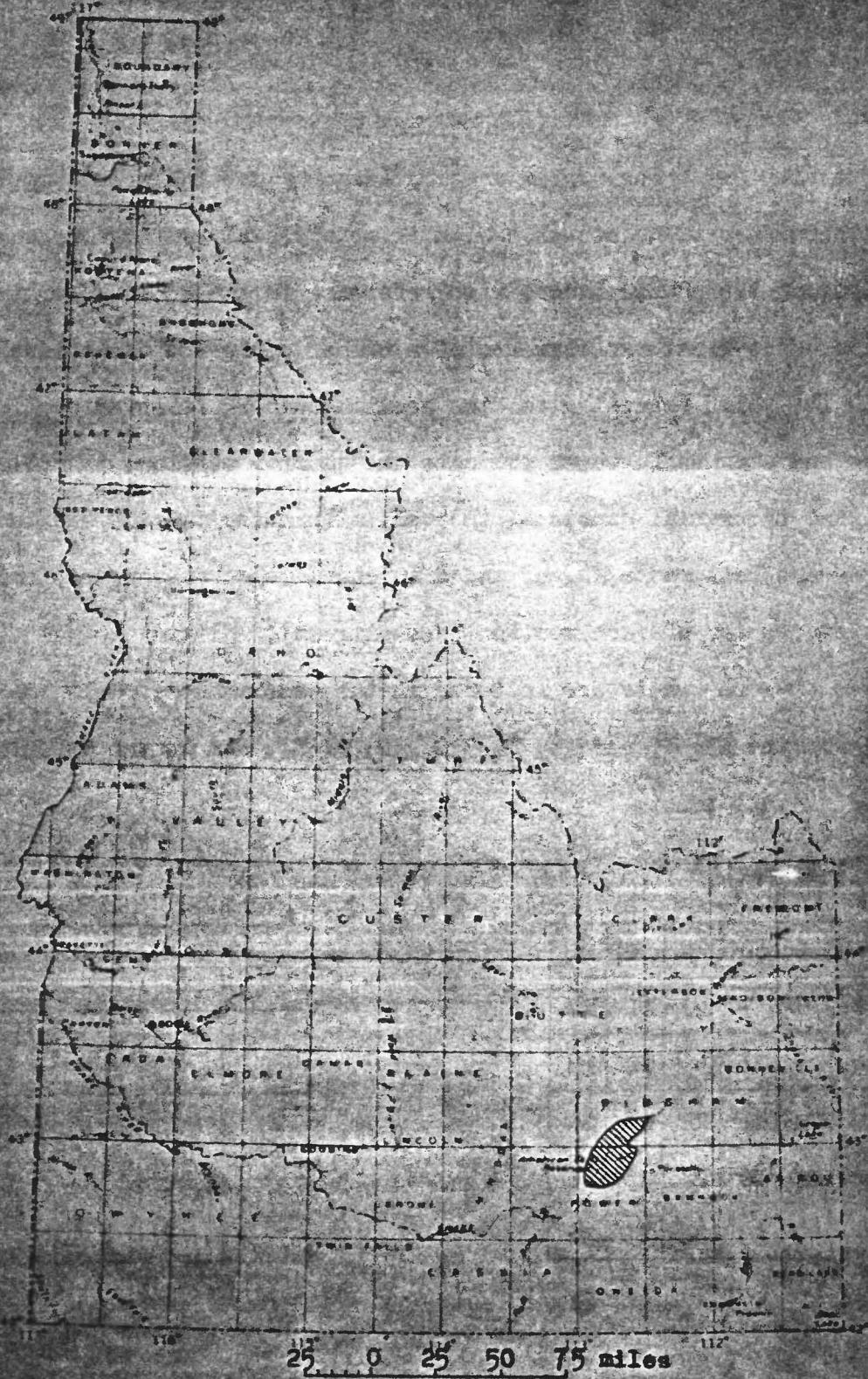
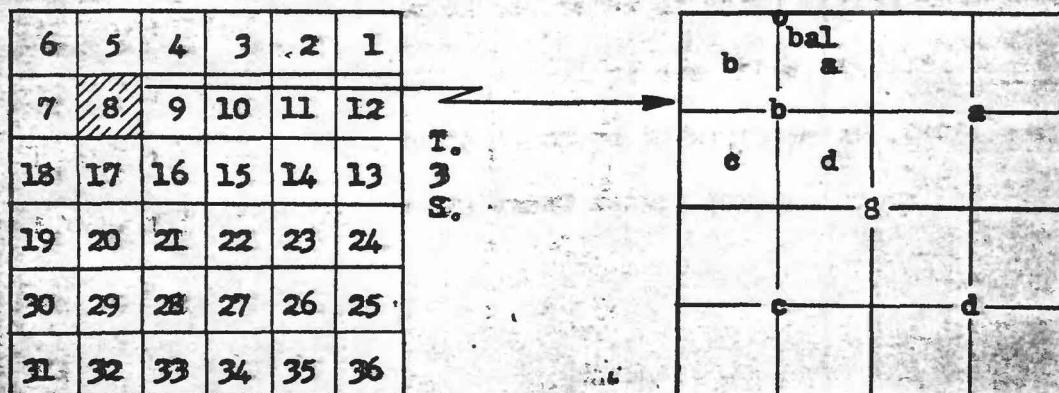


Figure 1.—Index map of Idaho showing area covered by this report.

### Well-Numbering System

The well-numbering system used in Idaho by the Geological Survey indicate the locations of wells within the official rectangular subdivisions of the public lands, with reference to the Boise base line and meridian. The first two segments of a number designate the township and range. The third segment gives the section number, followed by two letters and a numeral, which indicate the quarter section, the 40-acre tract, and the serial number of the well within the tract. Quarter sections are lettered a, b, c, and d in counterclockwise order, from the northeast quarter of each section (see diagram). Within the quarter sections 40-acre tracts are lettered in the same manner. Well 3S-24E-8bal is in the NE<sub>4</sub>NW<sub>4</sub> sec. 8, T. 3 S., R. 24 E., and is the well first visited in that tract.



R. 24 E.

3S-24E-8bal

### RECORDS OF OBSERVATION WELLS

Table 1 contains information about the locations, ownership, type, depth, use of well, and altitude of land surface. The relation of the measuring point to the land-surface datum is given in the table.

Land-surface datum.—At the time a measuring point is established for a well, the distance of the measuring point, in feet above or below the general natural land surface at the site, is measured. This general land surface is a plane of reference and is designated as a land-surface datum. The land surface may change thereafter from natural causes or by artificial excavation or fill, but the designated land-surface datum remains unchanged, and water levels continue to be reported with reference to that datum.

Measuring point.—A measuring point is a well-defined, fixed point over a well, such as the top of casing or the base of a pump, from which measurements of the depth to water can be made conveniently.

Altitude.—All altitudes are in feet above preliminary mean sea-level datum of 1929, as established by third-order leveling from bench marks established by the United States Coast and Geodetic Survey.

Table 1.—Records of observation wells in

## Abbreviations:

Depth of well: R, reported depth below land surface;  
not verified by measurement.

Type of pump: J, jet; L, lift; N, no pump; T, shaft turbine.

Use of well: D, domestic; I, irrigation; O, observation;  
S, stock.

Well number	Owner	Year drilled	Depth	Casing		Type of pump
			in feet below Land surface	Diameter (inches)	Depth (feet)	
<b>BINGHAM COUNTY</b>						
2S-34E-33bbl	Clarence Cope	1928	40	6	5	L
3S-33E-14bbl	F. J. Webb	1949	R 50	6	3	L
-17aal	C. J. Polatis	-	-	18	-	T
-22cdl	G. R. Atwood	-	50	6	-	L
3S-34E-8bal	Heber M. Fackrell	1905	37	7	5	N
-19cdl	Herb Strow	1937	R 55	6	-	L
4S-31E-36cbl	U.S. Geological Survey	1959	17	1 $\frac{1}{4}$	17	N
4S-32E- 9dcl	Bob Chandler	1921	105	6	105	J
-24cbl	Crystal Springs Trout Farm	-	9	6	-	L
-28bcl	Agnes Driscoll	1919	103	4	103	J
-28cc2	O. E. Nelson	1911	9	6	-	N
4S-33E- 1bcl	Herbert Crumley	1940	47	6	6	L
- 3cb2	R. F. Cammack	-	53	6	12	N
-15bb2	Gerald C. Kinney	1951	48	16	-	T
-22cbl	Josephine Shelman	1946	34	14	22	T
4S-34E- 5cc1	U.S. Geological Survey	1955	30	6	31	N
5S-30E-12bbl	George Inskeep	1950	200	12	-	T
5S-31E- 4dal	Ernest Underwood	1950	81	8	8	J
-19ddl	Don Dancliff	-	61	-	-	J
-27abl	Woodrow Youngstrom	1920	46	16	20	N
-33bdl	H. L. Lowe	1912	36	6	36	N
-35sal	Maril Beck	1912	61	6	10	L
5S-32E- 6ddl	Dayton Martin	-	21	6	-	L
- 7cc2	U.S. Geological Survey	1959	15	1 $\frac{1}{4}$	15	N
6S-31E- 7bal	Aberdeen Airport	-	97	8	-	T

western Bingham and Power Counties, Idaho

Conventions:

Altitude: All altitudes are given to the nearest one-tenth of a foot.

Use of well.	Description of measuring point	Measuring point above or below land-surface datum (feet)	Altitude of land surface datum
O	1/4-in. tap hole in pump base	1.50	4,456.9
O	Hole in N side pump stand	1.60	4,462.2
I,O	Top of casing N side	.80	4,512.8
S,O	Bottom of pump base N side	1.20	4,459.6
D,O	Top of casing S side	.75	4,447.5
O	Top of casing N side	.00	4,462.8
O	Top of 1 1/4-in. pipe N side	1.50	4,401.8
D,O	Hole in casing	-5.10	4,438.9
O	Top of casing	.30	4,383.9
I,O	Top of casing N side	.20	4,370.8
O	Top of concrete	.00	4,370.3
D,S,O	Bottom edge of pump base N side	-3.10	4,434.3
O	Top of casing N side	1.10	4,447.9
I,O	1-in. tap hole in pump base	1.00	4,413.0
I,O	Top of hole inside pump base N side	- .70	4,386.5
O	Top of casing coupling	2.20	4,405.2
I,O	Top of hole inside pump base SE side	.30	4,501.5
D,S,O	Top of hole in wooden box over casing	-4.60	4,448.8
D,S,O		.50	4,427.0
O	Top inside edge of casing	.50	4,399.8
O	Top of casing	.50	4,399.4
S,O	Top of casing	.90	4,391.7
O	Bottom edge of pump base	.60	4,370.8
O	Top of 1 1/4-in. pipe W side	3.00	4,374.7
O	Lower edge of pump base	.65	4,457.2

Table 1.—Records of observation wells in western

Well number	Owner	Year drilled	Depth	Casing		Type of pump
			in feet below land surface	Diameter (inches)	Depth (feet)	
<b>BINGHAM—Continued</b>						
6S-31E-11bcl	Ed Phillips	-	54	6	-	N
-16bal	Aberdeen-Spring-field Canal Co.	-	134	12	-	T
-30dal	Bartholoma Bros.	-	78	7	-	L
<b>POWER COUNTY</b>						
5S-33E-35ecl	U.S. Geological Survey	1955	60	6	60	N
6S-32E-27adL	U.S. Geological Survey	1954	63	6	75	N
6S-33E-20abl	Anton Smith	-	151	5	-	N
7S-30E-12cal	F. A. Harris formerly Jess Meadows	-	-	6	-	J
7S-31E-1bcl	T. S. Vanderford	-	275	12	-	N

## Bingham and Power Counties, Idaho—Continued

Use of well	Description of measuring point	Measuring point above or below land-surface datum (feet)	Altitude of land surface datum
O	Top of $\frac{1}{2}$ -in. pipe flange in wooden floor	2.20	4,467.6
O,I	Top of 7/8-in. hole in SW corner pump base	.25	4,392.2
O	Tap hole in pump base	.50	4,415.0
O	Top of casing N side	2.10	4,428.8
O	Top of casing N side	2.30	4,416.7
O	Top of casing S side	.20	4,436.8
D,S,O	Top of tap hole in upper surface of well seal N side	-1.95	4,399.3
O	Top of concrete pumpbase N side	.50	4,413.5

#### WATER LEVELS IN OBSERVATION WELLS

Depth-to-water measurements made at approximately monthly intervals are direct measurements by steel tape. Tabulations of daily water levels are noon readings from recording-gage charts. All measurements reported herein are in feet below land-surface at the well site.

## BINGHAM COUNTY

2S-34E-33bbl. Clarence Cope

Date	Water level	Date	Water level	Date	Water level
Jan. 26	31.27	May 18	29.72	Sept. 23	29.73
Feb. 21	31.64	June 14	29.07	Oct. 18	28.90
Mar. 23	31.89	July 14	28.53	Nov. 16	30.91
Apr. 21	32.28	Aug. 22	28.50	Dec. 15	31.73

3S-33E-14bbl. F. J. Webb

Jan. 26	42.33	June 14	39.25	Nov. 16	41.21
Feb. 21	40.85	July 14	38.43	Dec. 15	40.97
Apr. 21	41.30	Aug. 22	38.58		
May 18	39.98	Oct. 18	39.48		

3S-33E-17aa1. C. J. Polatis

Jan. 26	94.21	May 18	94.76	Sept. 23	93.61
Feb. 21	92.30	June 14	94.50	Oct. 18	93.59
Mar. 23	94.63	July 14	a 94.48	Nov. 16	94.14
Apr. 21	95.01	Aug. 22	a 93.82	Dec. 15	94.63

a Pumping.

## 3S-33E-22edl. G. R. Atwood

Date	Water level	Date	Water level	Date	Water level
Feb. 21	43.82	May 18	42.49	Aug. 22	41.14
Mar. 23	44.00	June 13	41.54	Sept. 23	42.24
Apr. 21	44.23	July 14	40.80		

Measurements discontinued

## 3S-34E-8edl. Haber M. Fackrell

Jan. 26	26.14	May 18	23.70	Sept. 23	22.79
Feb. 21	25.09	June 14	a 27.49	Oct. 18	23.60
Mar. 23	26.77	July 14	19.98	Nov. 16	25.30
Apr. 21	24.15	Aug. 22	a 26.95	Dec. 15	26.40

a Pumping

## 3S-34E-19edl. Herb Straw

Jan. 26	48.54	May 18	45.79	Sept. 23	45.62
Feb. 21	47.62	June 13	43.66	Oct. 18	45.68
Mar. 22	47.75	July 14	43.25	Nov. 16	46.92
Apr. 21	48.17	Aug. 22	44.88	Dec. 15	47.53

## 4S-31E-36cbl. U.S. Geological Survey

Date	Water level	Date	Water level	Date	Water level
Jan. 26	5.73	May 18	5.03	Sept. 22	1.89
Feb. 21	5.99	June 13	2.34	Oct. 15	2.28
Mar. 23	6.01	July 14	1.11	Nov. 15	3.62
Apr. 21	6.41	Aug. 23	1.11	Dec. 14	4.86

## 4S-32E-9dcl. Bob Chandler

Jan. 26	35.31	May 18	34.25	Sept. 22	33.10
Feb. 21	35.58	June 13	32.25	Oct. 16	32.70
Mar. 23	35.75	July 14	b 34.30	Nov. 16	35.12
Apr. 21	35.96	Aug. 22	b 33.16		

b Pumped recently.

## 4S-32E-24cbl. Crystal Springs Trout Farm

Jan. 26	5.88	May 18	5.23	Sept. 22	5.10
Feb. 21	5.65	June 13	4.95	Oct. 17	5.27
Mar. 23	5.72	July 14	4.79	Nov. 16	5.43
Apr. 21	5.93	Aug. 22	5.00	Dec. 15	5.68

## 4S-32E-28bcl. Agnes Driscoll

Date	Water level	Date	Water level	Date	Water level
June 16, 1927	4.2	Sept. 26	5.2	July 14	13.16
July 9	4.1	Oct. 3	5.1	Aug. 22	a 16.40
28	3.8	10	5.0	Sept. 22	1.45
Aug. 23	4.4	14	4.9	Oct. 16	3.04
Sept. 1	4.5	July 6, 1928	4.1	Nov. 15	3.00
12	4.85	June 22, 1961	13.04	Dec. 15	3.75

a Pumping.

## 4S-32E-28cc2. O. E. Nelson

May 18	3.15	July 14	3.69	Sept. 22	3.90
June 13	3.04	Aug. 22	3.77		

Measurements discontinued

## 4S-33E-1bel. Herbert Crumley

June 13	26.79	Measurements discontinued
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## 4S-33E-3cb2. R. F. Cammack

Date	Water level	Date	Water level	Date	Water level
Jan. 10	38.46	May 10	37.91	Sept. 5	35.18
26	38.58	20	36.50	23	36.58
31	38.66	31	35.83	30	36.52
Feb. 10	38.77	June 10	35.24	Oct. 10	36.29
20	38.94	20	34.90	20	36.30
28	39.00	30	34.40	31	37.22
Mar. 10	39.03	July 10	34.07	Nov. 16	37.94
20	39.13	20	34.04	20	37.91
31	39.24	31	34.20	30	38.26
Apr. 10	39.24	Aug. 10	34.66	Dec. 10	38.46
20	39.36	24	35.31	20	38.74
30	39.22	31	35.21		

## 4S-33E-15bb2. Gerald C. Kinney

Date	Water level	Date	Water level	Date	Water level
Jan. 26	31.24	May 18	a 33.57	Sept. 22	29.73
Feb. 21	31.32	June 13	a 33.01	Oct. 17	29.01
Mar. 23	31.51	July 14	a 33.03	Nov. 16	30.49
Apr. 21	31.69	Aug. 22	a 33.90	Dec. 15	31.19

a Pumping.

## 4S-33E-22cbl. Josephine Shelman

Jan. 26	25.76	May 18	25.89	Sept. 22	25.01
Feb. 21	25.69	June 13	a 25.12	Oct. 17	24.84
Mar. 23	25.74	July 14	a 26.47	Nov. 15	25.10
Apr. 21	25.85	Aug. 22	26.15	Dec. 15	25.61

a Pumping

## 4S-34E-5cc1. U.S. Geological Survey

Jan. 26	4.27	June 13	4.51	Oct. 18	3.79
Feb. 21	3.90	July 14	4.95	Nov. 16	3.76
Mar. 23	4.16	Aug. 23	4.77	Dec. 15	3.97
Apr. 21	4.34	Sept. 22	3.86		

## 5S-30E-12bb1. George Inskeep

Date	Water level	Date	Water level	Date	Water level
Feb. 21	108.59	June 13	109.26	Oct. 15	109.01
Mar. 22	108.69	Aug. 23	109.50	Nov. 15	108.90
Apr. 21	108.85	Sept. 22	109.30	Dec. 14	109.07

## 5S-31E-4dal. Ernest Underwood

Jan. 26	48.99	May 18	50.07	Sept. 22	b 50.66
Feb. 21	b 51.25	June 13	49.07	Oct. 15	49.36
Mar. 22	b 56.61	July 14	49.00	Nov. 15	49.62
Apr. 21	50.49	Aug. 23	49.14	Dec. 14	49.82

b Pumped recently

## 5S-31E-19ddl. Don Dancliff

Jan. 26	42.69	July 14	43.07	Nov. 15	43.46
Feb. 21	42.95	Aug. 23	43.42	Dec. 14	43.63
Mar. 22	43.01	Sept. 22	43.81		
June 13	42.61	Oct. 15	43.34		

## 5S-31E-27abl. Woodrow Youngstrom

Date	Water level	Date	Water level	Date	Water level
Jan. 10	22.14	May 10	24.86	Sept. 10	16.21
15	22.33	20	23.84	20	17.33
31	23.10	31	21.47	30	18.00
Feb. 10	23.54	June 10	19.58	Oct. 10	18.16
20	24.08	20	18.39	20	18.42
28	24.40	30	17.82	31	19.33
Mar. 10	24.63	July 10	16.32	Nov. 10	19.97
20	24.94	20	15.33	20	20.54
31	25.24	31	15.47	30	21.28
Apr. 10	25.43	Aug. 10	15.74	Dec. 10	21.89
20	25.67	22	15.40	20	22.53
30	25.77	31	15.37	31	23.21

## 5S-31E-33bdl. H. L. Lowe

Date	Water level	Date	Water level	Date	Water level
Jan. 26	18.33	May 18	13.95	Sept. 22	16.54
Feb. 21	18.48	June 13	12.02	Oct. 15	15.97
Mar. 22	17.65	July 14	10.87	Nov. 15	17.51
Apr. 21	18.75	Aug. 23	14.59	Dec. 14	18.38

Measurement discontinued

## 5S-31E-35aa1. Maril Beck

Mar. 22	24.77	June 13	23.94	Sept. 22	22.04
Apr. 21	25.00	July 14	c 22.35	Oct. 15	22.01
May 18	25.89	Aug. 23	22.59	Nov. 15	21.96

e Nearby well being pumped.

## 5S-32E-6ddl. Dayton Martin

Jan. 26	6.83	May 18	2.96	Sept. 22	4.02
Feb. 21	5.32	June 13	3.98	Oct. 15	5.79
Mar. 22	4.21	July 14	4.65	Nov. 15	5.53
Apr. 21	4.19	Aug. 22	3.52	Dec. 14	5.50

## 5S-32E-7cc2. U.S. Geological Survey

Date	Water level	Date	Water level	Date	Water level
Jan. 26	2.77	May 18	2.85	Sept. 22	2.93
Feb. 21	2.49	June 13	4.40	Oct. 15	2.74
Mar. 22	2.43	July 14	4.91	Nov. 15	2.35
Apr. 21	3.54	Aug. 22	4.55	Dec. 14	2.98

## 6S-31E-7bal. Aberdeen Airport

Jan. 26	84.17	May 18	86.19	Sept. 22	83.53
Feb. 21	85.32	June 13	84.21	Oct. 19	82.65
Mar. 22	85.22	July 14	83.72	Nov. 15	82.64
Apr. 21	85.13	Aug. 23	84.37	Dec. 14	82.87

## 6S-31E-11bal. Ed Phillips

Jan. 26	30.43	May 18	31.99	Sept. 22	26.36
Feb. 21	31.35	June 13	27.95	Oct. 18	27.31
Mar. 22	32.02	July 14	24.79	Nov. 15	28.76
Apr. 21	32.38	Aug. 23	23.87	Dec. 14	30.17

## 6S-31E-16bal. Aberdeen-Springfield Canal Co.

Date	Water level	Date	Water level	Date	Water level
Jan. 26	16.24	May 18	15.12	Sept. 22	14.22
Feb. 21	16.26	June 13	14.03	Oct. 18	14.55
Mar. 22	16.41	July 14	13.38	Nov. 15	15.04
Apr. 21	16.53	Aug. 23	19.91	Dec. 14	15.66

a Pumping.

## 6S-31E-30dal. Bartholoma Bros.

Jan. 26	51.04	May 18	50.15	Sept. 22	47.82
Feb. 21	51.92	June 13	46.98	Oct. 18	47.98
Mar. 22	52.41	July 14	45.46	Nov. 15	50.11
Apr. 21	52.63	Aug. 23	45.75	Dec. 14	51.41

## POWER COUNTY

5S-33E-35sec. U.S. Geological Survey

Date	Water level	Date	Water level	Date	Water level
Jan. 10	24.84	May 10	25.41	Sept. 10	24.97
26	24.98	20	25.33	20	24.64
31	25.01	31	25.43	30	24.60
Feb. 10	25.03	June 10	25.46	Oct. 10	24.62
20	25.08	20	25.49	20	24.69
28	25.09	30	25.54	31	24.69
Mar. 10	25.07	July 10	25.40	Nov. 10	24.78
20	25.06	20	25.41	20	24.84
31	25.09	31	25.32	30	24.98
Apr. 10	25.09	Aug. 10	25.32	Dec. 10	25.10
20	25.18	20	25.26	20	25.22
30	25.28	31	25.08	31	25.38

## 6S-32E-27 adL. U.S. Geological Survey

Date	Water level	Date	Water level	Date	Water level
Jan. 10	38.50	May 10	36.15	Sept. 10	39.58
15	38.40	20	36.18	20	39.71
31	38.11	31	36.29	30	39.80
Feb. 10	37.87	June 10	36.49	Oct. 10	39.84
20	37.60	20	36.78	20	39.83
28	37.43	30	37.12	31	39.71
Mar. 10	37.20	July 10	37.47	Nov. 10	39.56
20	36.97	20	37.84	20	39.39
31	36.74	31	38.25	30	39.19
Apr. 10	36.54	Aug. 10	38.65	Dec. 9	38.99
20	36.36	20	39.03	20	38.75
30	36.22	31	39.35	31	38.50

## 6S-33E-20abI. Anton Smith

Date	Water Level	Date	Water Level	Date	Water Level
Jan. 10	35.19	May 10	36.30	Sept. 10	36.10
15	35.18	18	36.68	22	35.61
31	35.21	31	36.44	30	35.43
Feb. 10	35.19	June 10	36.50	Oct. 10	35.54
20	35.25	20	36.95	20	35.62
28	35.28	30	37.12	31	35.32
Mar. 10	35.23	July 10	37.38	Nov. 10	35.33
20	35.18	20	37.30	20	35.33
31	35.16	31	37.19	30	35.43
Apr. 10	35.18	Aug. 10	36.99	Dec. 10	35.48
20	35.44	20	36.90	20	35.62
30	35.51	31	36.87	31	35.71

## 7S-30E-12cal. F. A. Harris formerly Jess Meadows

Date	Water level	Date	Water level	Date	Water level
Jan. 26	50.24	May 18	47.31	Sept. 22	46.40
Feb. 21	50.45	June 13	46.36	Oct. 20	46.36
Mar. 22	48.82	July 14	45.63	Nov. 15	48.38
Apr. 21	46.73	Aug. 23	45.64	Dec. 14	b 49.74

b Pumped recently.

## 7S-31E-1bcl. T. S. Vanderford

June 13	68.06	Sept. 22	77.88	Dec. 14	66.42
July 13	79.72	Oct. 16	77.57		
Aug. 23	86.00	Nov. 15	70.82		

